

LIST OF PUBLICATIONS OF HAJNAL ANDRÉKA

Alfréd Rényi Institute of Mathematics
of the Hungarian Academy of Sciences.

1 Books

- [4] *Decision problems for equational theories of relation algebras.* **Memoirs of Amer. Math. Soc.** Vol. 126, No. 604, American Mathematical Society, Providence, Rhode Island, 1997. xiv+126pp. IF: 1.018. Andréka, H., Givant, S. and Németi, I.
- [3] *Cylindric Set Algebras.* **Lecture Notes in Mathematics** Vol 883, Springer-Verlag, Berlin, 1981. vi + 323 pp. Henkin, L., Monk, J. D., Tarski, A., Andréka, H. and Németi, I.
- [2] *Generalization of the concept of variety and quasi-variety to partial algebras through category theory.* **Dissertationes Mathematicae (Rozprawy Math.)** No. 204. PWN - Polish Scientific Publishers, Warsaw, 1983. 51 pp. Andréka, H. and Németi, I.

2 Book edited

- [1] *Algebraic Logic.* **Colloq. Math. Soc. J. Bolyai** Vol. 54, North-Holland, Amsterdam, 1991. vi + 746 pp. Editors: Andréka, H., Monk, J. D. and Németi, I.

3 Journal Articles, refereed

- [64] *A twist in the geometry of rotating black holes: seeking the cause of acausality.* **General Relativity and Gravitation** 40,9 (2008), 65-89. IF:

- 1.53. Andr eka, H., N emeti, I. and W uthrich, C.
- [63] *Axiomatizing relativistic dynamics without conservation postulates.* **Studia Logica** 89,2 (2008), 163-186. Andr eka, H., Madar asz, J. X., N emeti, I. and Sz ekely, G.
- [62] *Omitting types for finite variable fragments and complete representations of algebras.* **Journal of Symbolic Logic** 73,1 (2008), 65-89. IF: 0.66. Andr eka, H., N emeti, I. and Sayed-Ahmed, T.
- [61] *Mutual definability does not imply definitional equivalence, a simple example.* **Mathematical Logic Quarterly** 51,6 (2005), 591-597. IF: 0.386. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [60] *Algebras of relations of various ranks, some current trends and applications.* **Journal of Relational Methods in Computer Science** 1 (2004), 27-49. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [59] *Groups and algebras of relations.* **Bulletin of Symbolic Logic** 8,1 (2002), 38-64. IF: 0.583. Andr eka, H. and Givant, S. R.
- [58] *Operators and laws for combining preferential relations.* **Journal of Logic and Computation** 12,1 (2002), 13-53. IF: 0.771. Andr eka, H., Ryan, M. and Schobbens, P-Y.
- [57] *A finite axiomatization of locally square cylindric-relativized set algebras.* **Studia Sci. Math. Hungar.** 38 (2001), 1-11. IF: 0.118. Andr eka, H.
- [56] *Finite algebras of relations are representable on finite sets.* **Journal of Symbolic Logic** 64,1(1999), 243-267. IF: 0.296. Andr eka, H., Hodkinson, I. and N emeti, I.
- [55] *Modal languages and bounded fragments of predicate logic.* **Journal of Philosophical Logic** 27 (1998), 217-274. Andr eka, H., van Benthem, J. and N emeti, I.
- [54] *Notions of density that imply representability in algebraic logic.* **Annals of Pure and Applied Logic** 91 (1998), 93-190. IF: 0.406. Andr eka, H., Givant, S., Mikul as, Sz., N emeti, I. and Simon, A.
- [53] *Relativised quantification: some canonical varieties of sequence-set algebras.* **Journal of Symbolic Logic** 63,1 (1998), 163-184. IF: 0.295. Andr eka, H., Goldblatt, R. and N emeti, I.

- [52] *Complexity of equations valid in algebras of relations, Parts I-II.* **Annals of Pure and Applied Logic** 89 (1997), 149-229. IF: 0.483. Andr eka, H.
- [51] *Persistent properties and an application to algebras of logic.* **Algebra Universalis** 38 (1997), 141-149. IF: 0.275. Andr eka, H., Givant, S., N emeti, I. and Simon, A.
- [50] *Axiomatization of identity-free equations valid in relation algebras.* **Algebra Universalis** 35 (1996), 256-264. IF: 0.166. Andr eka, H. and N emeti, I.
- [49] *The equational theory of union-free algebras of relations.* **Algebra Universalis** 33,4 (1995), 516-532. IF: 0.239. Andr eka, H. and Bredikhin, D.
- [48] *Back and forth between modal logic and classical logic.* **Journal of the IGPL** 3,5 (1995), 685-720. Andr eka, H., van Benthem, J. and N emeti, I.
- [47] *Expressibility of properties of relations.* **Journal of Symbolic Logic** 60,3 (1995), 970-991. IF: 0.311. Andr eka, H., Duentsch, I. and N emeti, I.
- [46] *Perfect extensions and derived algebras.* **Journal of Symbolic Logic** 60,3 (1995), 775-796. IF: 0.311. Andr eka, H., Givant, S. and N emeti, I.
- [45] *Binary relations and permutation groups.* **Mathematical Logic Quarterly** 41(1995), 197-216. IF: 0.187. Andr eka, H., D untsch, I. and N emeti, I.
- [44] *Representations for small relation algebras.* **Notre Dame Journal of Formal Logic** 35,4 (1994), 550-562. Andr eka, H. and Maddux, R. D.
- [43] *Weakly representable but not representable relation algebras.* **Algebra Universalis** 32 (1994), 31-43. IF: 0.217. Andr eka, H.
- [42] *Lambek Calculus and its relational semantics: Completeness and incompleteness.* **Journal of Logic, Language and Information** 3 (1994), 1-37. Andr eka, H. and Mikul as, Sz.
- [41] *Connections between axioms of set theory and basic theorems of universal algebra.* **Journal of Symbolic Logic** 59,3 (1994), 912-922. IF: 0.204. Andr eka, H., Kurucz,  . and N emeti, I.
- [40] *The lattice of varieties of representable relation algebras.* **Journal of Symbolic Logic** 59,2 (1994), 631-661. IF: 0.204. Andr eka, H., Givant, S. and N emeti, I.

- [39] *A nonpermutational integral relation algebra.* **Michigan Math. J.** 39 (1992), 371-384. IF: 0.259. Andréka, H., Düntsch, I. and Németi, I.
- [38] *Splitting in relation algebras.* **Proceedings of Amer. Math. Soc.** 111,4 (1991), 1085–1093. IF: 0.276. Andréka, H., Maddux, R. and Németi, I.
- [37] *Representations of distributive lattice-ordered semigroups with binary relations.* **Algebra Universalis** 28 (1991), 12-25. IF: 0.129. Andréka, H.
- [36] *One variable is not enough for defining relation algebras but two are.* **Algebra Universalis** 28 (1991), 274-279. IF: 0.129. Andréka, H.
- [35] *Free algebras in discriminator varieties.* **Algebra Universalis** 28 (1991), 401-447. IF: 0.129. Andréka, H., Jónsson, B. and Németi, I.
- [34] *On the strength of temporal proofs.* **Theoretical Computer Science** 80 (1991), 125-151. Shorter version appeared in Lecture Notes in Computer Science Vol 379, 1989. IF: 0.422. Andréka, H., Németi, I. and Sain, I.
- [33] *Weak cylindric set algebras and weak subdirect indecomposability.* **Journal of Symbolic Logic** 55,2 (1990), 577–588. IF: 0.376. Andréka, H., Németi, I. and Thompson, R. J.
- [32] *A Stone-type representation theorem for algebras of relations of higher rank.* **Trans. Amer. Math. Soc.** 309,2 (1988), 671-682. IF: 0.689. Andréka, H. and Thompson, R. J.
- [31] *A system of logic for partial functions under existence–dependent Kleene equality.* **Journal of Symbolic Logic** 53 (1988), 834–839. IF: 0.355. Andréka, H., Craig, W. and Németi, I.
- [30] *On taking subalgebras of relativized relation algebras.* **Algebra Universalis** 25 (1988), 96-100. IF: 0.108. Andréka, H.
- [29] *Boolean reducts of relation and cylindric algebras and the cube problem.* **Proc. Amer. Math. Soc.** 100,1 (1987), 148-153. IF: 0.271. Andréka, H.
- [28] *A unifying theorem for algebraic semantics and dynamic logics.* **Information and Computation** 72,1 (1987), 31–45. IF: 0.735. Andréka, H., Guessarian, I. and Németi, I.
- [27] *On the number of generators of cylindric algebras.* **Journal of Symbolic Logic** 50,4 (1985), 865–873. IF: 0.486. Andréka, H. and Németi, I.

- [26] *Relative epis need not be surjective.* **Algebra Universalis** 20 (1985), 197-204. IF; 0.183. Andr eka, H. and P asztor, A.
- [25] *Remark on one-sided A -ideals of semigroups.* **Math. Slovaca** 33,2 (1983), 231–235. Andr eka, H., N emeti, I. and Sulka, R.
- [24] *A complete logic for reasoning about programs via nonstandard model theory.* **Theoretical Computer Science** 17 (1982), Part I in No 2, pp.193–212, Part II in No 3, pp.259–278. IF: 0.422. Andr eka, H., N emeti, I. and Sain, I.
- [23] *Quasivarieties of partial algebras – a unifying approach towards a two-valued model theory for partial algebras.* **Studia Sci. Math. Hungar.** 16 (1981), 325–372. Andr eka, H., Burmeister, P. and N emeti, I.
- [22] *Dimension complemented and locally finite dimensional cylindric algebras are elementarily equivalent.* **Algebra Universalis** 13 (1981), 157–163. Andr eka, H. and N emeti, I.
- [21] *HSPK is an equational class, without the axiom of choice.* **Algebra Universalis** 13 (1981), 164–166. Andr eka, H. and N emeti, I.
- [20] *Similarity types, pseudosimple algebras, and congruence representation of chains.* **Algebra Universalis** 13 (1981), 293–306. Andr eka, H. and N emeti, I.
- [19] *Does $SPK \supseteq PSK$ imply axiom of choice?* **Comm. Math. Univ. Carolinae.** 21,4 (1980), 699–706. Andr eka, H. and N emeti, I.
- [18] *On systems of varieties definable by schemes of equations.* **Algebra Universalis** 11 (1980), 105–116. Andr eka, H. and N emeti, I.
- [17] *Injectivity in categories to represent all first order formulas.* **Demonstratio Mathematica** 12 (1979), 717–732, Andr eka, H. and N emeti, I.
- [16] *Formulas and ultraproducts in categories.* **Beitr age zur Algebra und Geometrie** 8 (1979), 133–151. Andr eka, H. and N emeti, I.
- [15] *Neat reducts of varieties.* **Studia Sci. Math. Hungar.** 13 (1978), 47–51. Andr eka, H. and N emeti, I.
- [14] *Los lemma holds in every category.* **Studia Sci. Math. Hungar.** 13 (1978), 361–376. Andr eka, H. and N emeti, I.
- [13] *The generalised completeness of Horn predicate logic as a programming language.* **Acta Cybernetica** Tom 4, Fasc 1 (Szeged 1978), 3–10. Andr eka, H. and N emeti, I.

- [12] *On universal algebraic construction of logics.* **Studia Logica** 36,1–2 (1977), 9–47. Andréka, H., Gergely, T. and Németi, I.
- [11] *On the adequateness of predicate logic programming.* **AISB European Newsletter** Issue 23 (1976), 30–32. Andréka, H. and Németi, I.
- [10] *On a proof of Shelah.* **Bulletin de l'Academie Polonaise des Sciences (Series Math.)** 27 (1976), 1–7. Andréka, H., Dahn, B. I. and Németi, I.
- [9] *Remarks on free products in regular varieties and sink-complemented subalgebras.* **Studia Sci. Math. Hung.** 10 (1975), 23–31, Andréka, H. and Németi, I.
- [8] *A simple, purely algebraic proof of the completeness of some first order logics.* **Algebra Universalis** 5 (1975), 8–15. Andréka, H. and Németi, I.
- [7] *Many-sorted languages and their connection with higher order languages.* (In Russian) (Mnogoszortnűje jázüki i ih szvjáz sz jázükámí n-ovo porjádka.) **Kibernetika** 75,4 (Kijev 1975), 86–92. Andréka, H., Gergely, T. and Németi, I.
- [6] *On some questions of higher order logic.* (In Hungarian) (Az ennedrendű nyelvek néhány kérdéséről.) **Matematikai Lapok** 24 (1975), 63–94. Andréka, H., Gergely, T. and Németi, I.
- [5] *Subalgebra systems of algebras with finite and infinite, regular and singular arities.* **Annales Univ. Budapest. Eötvös Sec. Math.** 17 (1974), 103–118. Andréka, H. and Németi, I.
- [4] *Sufficient and necessary condition for the completeness of a calculus.* **Zeitschr. Math. Logic u. Grundle. Math.** Bd 20 (1974), 433–434. Andréka, H., Gergely, T. and Németi, I.
- [3] *On some questions of n -th order logic.* (In Russian) (O nyekotorüh váprószáh jázükovo n-ovo porjádka. I–II.) **Kibernetika** 74/5, 74/6 (Kijev 1974), 61–67, 77–83. Andréka, H., Gergely, T. and Németi, I.
- [2] *On the equivalence of sets definable by satisfaction and ultrafilters.* **Studia Sci. Math. Hungar.** 8 (1973), 463–467. Andréka, H. and Németi, I.
- [1] *Notes on maximal congruence relations, automata and related topics.* **Acta Cybernetica** Tom 2, Fasc 1 (Szeged 1973), 71–88. Andréka, H., Horváth, S. and Németi, I.

4 Invited Book Chapters

- [12] *Logic of space-time and relativity theory*. In: **Handbook of Spatial Logics** (Aiello, M., Pratt-Hartmann, I., Benthem, J. F. A. K. van eds), Springer Verlag, 2007. pp.607-711. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [11] *Logical axiomatizations of space-time. Samples from the literature*. In: **Non-Euclidean Geometries: J anos Bolyai Memorial Volume** (Pr ekopa, A., Moln ar, E. eds), Mathematics and Its Applications Vol. 581, Springer Verlag, 2006. pp. 155-185. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [10] *Logical analysis of relativity theories*. In: **First-order Logic Revisited** (Hendricks et al. eds), Logos Verlag, Berlin, 2004. pp.7-36. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [9] *Relational Algebras*. In: **The Concise Handbook of Algebra**. Editors: Mikhalev, A. V. and Pilz, G. F. Kluwer Academic Publishers, Dordrecht, Boston, London, 2002. pp. 478-482. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [8] *Algebraic Logic*. In: Supplement III of **Encyclopaedia of Mathematics**. Editor: Hazewinkel, M. Kluwer Academic Publishers, 2002. pp.31-34. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [7] *Algebraic Logic*. In: **Handbook of Philosophical Logic**, Vol. 2, second edition, eds. D. M. Gabbay and F. Guenther, Kluwer Academic Publishers, 2001. pp. 133-247. Andr eka, H., N emeti, I. and Sain, I.
- [6] *Submodel preservation theorems in finite variable fragments*. In: **Modal Logic and Process Algebra. A Bisimulation Perspective**. Eds: Ponse, A. de Rijke, M. and Venema, Y. CSLI Lecture Notes No. 53, CSLI Publications, 1995. pp.1-11. Andr eka, H., van Benthem, J. and N emeti, I.
- [5] *Effective temporal logics of programs*. In: **Time and Logic, a computational approach**, eds: Bolc, L. and Szalas, A., UCL Press, London, 1995. pp.51-129. Andr eka, H., Goranko, V., Mikul as, Sz., N emeti, I. and Sain, I.
- [4] *General algebraic logic: a perspective on "what is logic"*. In: **What is a logical system**, ed: D. M. Gabbay, Clarendon Press, Oxford, 1994. pp.393-444. Andr eka, H. and N emeti, I.

[3] *Some new landmarks on the roadmap of two dimensional logics.* In: **Logic and Information Flow**, ed.: J. van Eijck and A. Visser, MIT Press, Cambridge, 1994. pp. 163-169. Andr eka, H., N emeti, I. and Sain, I.

5 Book Chapters

[2] *Causes and remedies for undecidability in arrow logics and in multi-modal logics.* **Arrow Logic and Multi-Modal Logic**, M. Marx, L. P olos, and M. Masuch eds, CSLI Publications, Stanford, California, 1996. pp.63-99. Andr eka, H., Kurucz,  ., N emeti, I., Sain, I. and Simon, A.

[1] *Direct limits and filtered colimits are strongly equivalent in all categories.* **Algebra and its applications**, Banach Center Publications Vol 9, PWN – Polish Scientific Publishers, Warszawa 1980. pp.75–88. Andr eka, H. and N emeti, I.

6 Proceedings, refereed

[22] *Can general relativistic computers break the Turing barrier?.* In: **Logical Approaches to Computational Barriers** (Proc. Conf. CiE 2006, Swansea, UK, July 2006) Eds.: Beckmann, A., Berger, U., L owe, B. and Tucker, J. V., Lecture Notes in Computer Science Vol 3988, Springer-Verlag, Berlin, 2006. pp.398-412. N emeti, I. and Andr eka, H.

[21] *Operators and laws for combining preferential relations (Extended abstract).* In: **Information Systems: Correctness and Reusability (Selected papers)**, eds: Wieringa, R. J. and Feenstra, R. B., World Scientific Publishing Co, 1995, pp.191-206. Andr eka, H., Ryan, R. and Schobbens, P-Y.

[20] *Exactly which logics touched by the dynamic trend are decidable?.* In: **Proceedings of 9th Amsterdam Colloquium** (Dec.14-17, 1993), ILLC, Department of Philosophy, University of Amsterdam, 1994. Eds: P. Dekker and M. Stokhof. pp.67-86. Andr eka, H., Kurucz,  ., N emeti, I., Sain, I. and Simon, A.

[19] *Craig property of a logic and decomposability of theories.* In: **Proceedings of 9th Amsterdam Colloquium** (Dec.14-17, 1993), ILLC, Department of Philosophy, University of Amsterdam, 1994. Eds: P. Dekker and M. Stokhof. pp.87-93. Andr eka, H., N emeti, I. and Sain, I.

- [18] *Applying algebraic logic to logic.* In: **Algebraic methodology and software technology** (AMAST'93, Proc. Twente, The Netherlands, June 1993), Nivat, M., Rattray, C., Rus, T. and Scollo, G. eds., Springer-Verlag, London, 1994. pp.7-28. Andr eka, H., N emeti, I. and Sain, I.
- [17] *On J onsson's clones of operations on binary relations.* In: **Algebraic Logic** (Coll. Math. Soc. J. Bolyai Vol. 54), North-Holland, 1991. pp.431-442. Andr eka, H. and N emeti, I.
- [16] *Relatively free relation algebras.* (Extended abstract) In: **Algebraic Logic and Universal Algebra in Computer Science** (Proc. Conf. Ames 1988) Lecture Notes in Computer Science Vol 425, Springer-Verlag, Berlin, 1990. pp.1-14. Andr eka, H., J onsson, B. and N emeti, I.
- [15] *On residuated approximations.* In: **Categorical Methods in Computer Science (with aspects from Topology)** eds: Ehrig, J., Herrlich, H., Kreowski, H-J. and Preuss, G. Lecture Notes in Computer Science Vol 393, Springer-Verlag, Berlin, 1989, pp.333-339. Andr eka, H., Greechie, R. J. and Strecker, G. E.
- [14] *On the strength of temporal proofs.* In: **Mathematical Foundations of Computer Science'89** (Proc. Porabka-Kozubnik, Poland, 1989) Eds.: Kreczmar, A. and Mirkowska, G. Lecture Notes in Computer Science Vol 379, Springer-Verlag, Berlin, 1989. pp.135-144. Andr eka, H., N emeti, I. and Sain, I.
- [13] *Clones of operations on relations.* In: **Universal Algebra and Lattice Theory** (Proc. Conf. Charleston 1984) Lecture Notes in Mathematics Vol 1149, Springer-Verlag, Berlin, 1985. pp.7-21. Andr eka, H., Comer, S. D. and N emeti, I.
- [12] *Importance of universal algebra for computer science.* In: **Universal algebra and its links with logic, algebra, combinatorics, and computer science** (Proc. of the "25th Arbeitstagung  ber Allgemeine Algebra", Darmstadt 1983) Eds.: Burmeister, P., Ganter, B., Herrman, C., Keimel, K., Poguntke, W. and Wille, R. Research and Exposition in Math. Vol 4, Heldermann Verlag, Berlin, 1984. pp.204-215. Andr eka, H. and N emeti, I.
- [11] *Sharpening the characterization of the power of Floyd method.* In: **Logics of Programs and their Applications** (Proc. Conf. Poznan 1980) ed: Salwicki, A. Lecture Notes in Computer Science Vol 148, Springer-Verlag, Berlin, 1983, pp.1-26. Andr eka, H.

- [10] *Some universal algebraic and model theoretic results in computer science.* In: **Fundamentals of Computation Theory'81** (Proc. Conf. Szeged 1981) Ed.: Gécseg, F. Lecture Notes in Computer Science Vol 117, Springer-Verlag, Berlin, 1981, pp.16–23. Andr eka, H. and N emeti, I.
- [9] *Which finite cylindric algebras are generated by a single element?.* In: **Finite Algebra and Multiple-valued Logic** (Proc. Coll. Szeged 1979) Colloq. Math. Soc. J. Bolyai Vol 28, North-Holland, Amsterdam, 1981. pp.23–39. Andr eka, H. and N emeti, I.
- [8] *A characterization of Floyd provable programs.* In: **Mathematical Foundations of Computer Science'81** (Proc. Conf. Strbsk e Pleso, Czechoslovakia 1981). Eds.: Gruska, J. and Chytil, M. Lecture Notes in Computer Science Vol 118, Springer-Verlag, Berlin, 1981. pp.162–171. Andr eka, H., N emeti, I., and Sain, I.
- [7] *Connections between algebraic logic and initial algebra semantics of CF languages.* In: **Mathematical Logic in Computer Science** (Proc. Coll. Salg otarj an 1978), eds: D om olki, B. and Gergely, T. Colloq. Math. Soc. J. Bolyai Vol 26, North-Holland, Amsterdam, 1981, pp.25-83. Andr eka, H. and Sain, I.
- [6] *A general axiomatizability theorem formulated in terms of cone-injective subcategories.* In: **Universal Algebra** (Proc. Coll. Esztergom 1977) Colloq. Math. Soc. J. Bolyai Vol 29, North-Holland, Amsterdam, 1981. pp.13–35. Andr eka, H. and N emeti, I.
- [5] *Model theoretical semantics for many-purpose languages and language hierarchies.* In: **Computational Linguistics** (Proc. 8th Int. Conf. Tokyo 1980) Tokyo, 1980. pp.213–219. Andr eka, H., Gergely, T. and N emeti, I.
- [4] *Completeness problems in verification of programs and program schemes.* In: **Mathematical Foundations of Computer Science'79** (Proc. Conf. Olomouc Czechoslovakia 1979), Ed.: Becvar, J. Lecture Notes in Computer Science Vol 74, Springer-Verlag, Berlin, 1979. pp.208–218. Andr eka, H., N emeti, I. and Sain, I.
- [3] *Henkin-type semantics for program schemes to turn negative results to positive.* In: **Fundamentals of Computation Theory'79** (Proc. Conf. Berlin 1979) Ed.: L. Budach, Akademie Verlag, Berlin, 1979. Band 2, pp.18–24. Andr eka, H., N emeti, I. and Sain, I.

[2] *Reduced products in categories.* In: **Contributions to General Algebra** (Proc. Conf. Klagenfurt 1978) Verlag Johannes Heyn, 1979. pp.25–45. Andr eka, H., Makai, E., M arki, L. and N emeti, I.

[1] *On the congruence lattice of pseudosimple algebras.* In: **Contributions to Universal Algebra** (Proc. Coll. Szeged 1975) Colloq. Math. Soc. J. Bolyai Vol 17, North–Holland, Amsterdam, 1977. pp.15–20. Andr eka, H. and N emeti, I.

7 Conference volumes, refereed

[1] *A logical investigation of inertial and accelerated observers in flat space-time.* In: **Kalm ar Workshop on Logic and Computer Science**, (G ecseg, F. Csirik, J. and Tur an, Gy. eds) Department of Informatics, University of Szeged, Szeged, Hungary, 2003. pp.45-57. Andr eka, H., Madar asz, J. X., N emeti, I. and Sz ekely, G.

8 Short papers

[6] *Relativity theory for logicians and new computing paradigms. Abstract of talk.* In: **Logical Approaches to Computational Barriers** (Second Conference on Computability in Europe CiE 2006, Swansea, UK, June/July 2006), eds: Beckmann, A., Berger, U., L owe, B. and Tucker, J. V., University of Wales Swansea, Computer Science, Report No CSR 7-2006, pp.12-14. Andr eka, H.

[5] *New physics and hypercomputation.* In: **SOFSEM 2006: Theory and Practice of Computer Science** (32nd Conf. on Current Trends in Theory and Practice of Computer Science, Merin, Czech Republic, January 2006), Lecture Notes in Computer Science 3831, eds: Wiedermann, J., Tel, G., Pokorny, J. Bielikova, M. and Stuller, J., Springer Verlag, 2006, Invited talks section, p.63. N emeti, I. and Andr eka, H.

[4] *Developments after 1991.* Chapter in J. D. Monk: Introduction to cylindric algebras. **Logic Journal of IGPL** (Special issue on Algebraic Logic) 8,4 (2000), 451-506. Andr eka, H.

- [3] *Decision problems for equational theories of relation algebras.* **Bulletin of Section of Logic** 23,2 (1994), 47-52. Andr eka, H., Givant, S. and N emeti, I.
- [2] *On the “union-relationcomposition” reducts of relation algebras.* **Abstracts of Amer. Math. Soc.** 10,2 (1989), p.174. *89T-08-21. Andr eka, H.
- [1] *Nonfinite axiomatizability of the polyadic operations in algebraic logic.* **Abstracts of Amer. Math. Soc.** 9,6 (1988), p.500. *88T-03-264. Andr eka, H. and Tuza, Zs.

9 Dissertations

- [3] *Complexity of equations valid in algebras of relations.* **Doctoral Dissertation with the Hungarian Academy of Sciences**, Budapest, 1991. 103pp. Andr eka, H.
- [2] *Universal algebraic investigations in algebraic logic. (Univerz alis algebrai vizsg alatok az algebrai logika terület en).* (In Hungarian) **Dissertation for Candidate’s degree with the Hungarian Academy of Sciences**, Budapest, 1977. 199pp. Andr eka, H.
- [1] *Algebraic investigation of first order logic. (Az els rend u logika algebrai vizsg alata).* (In Hungarian) **Doctoral Dissertation with E tv s Lor nd University**, Budapest, 1973. 162pp. Andr eka, H.

Altogether 112 publications